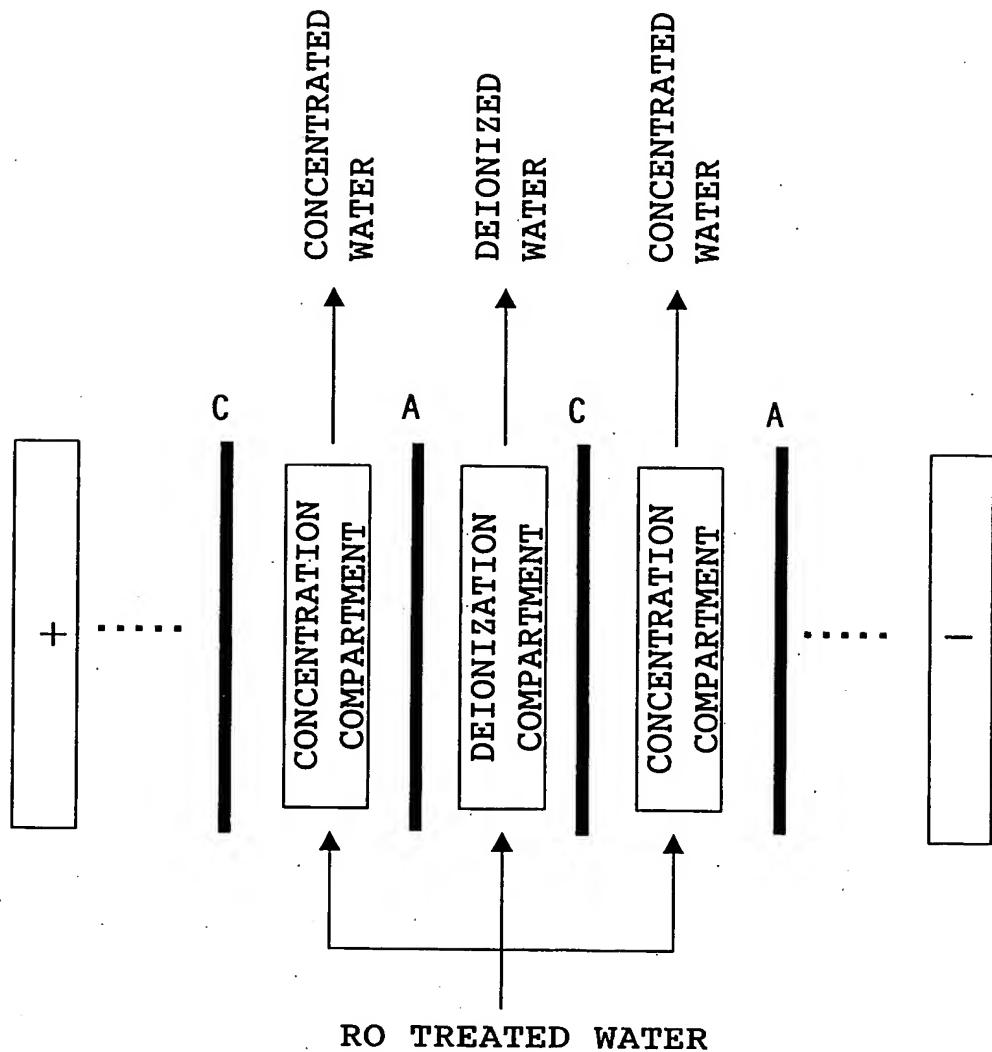


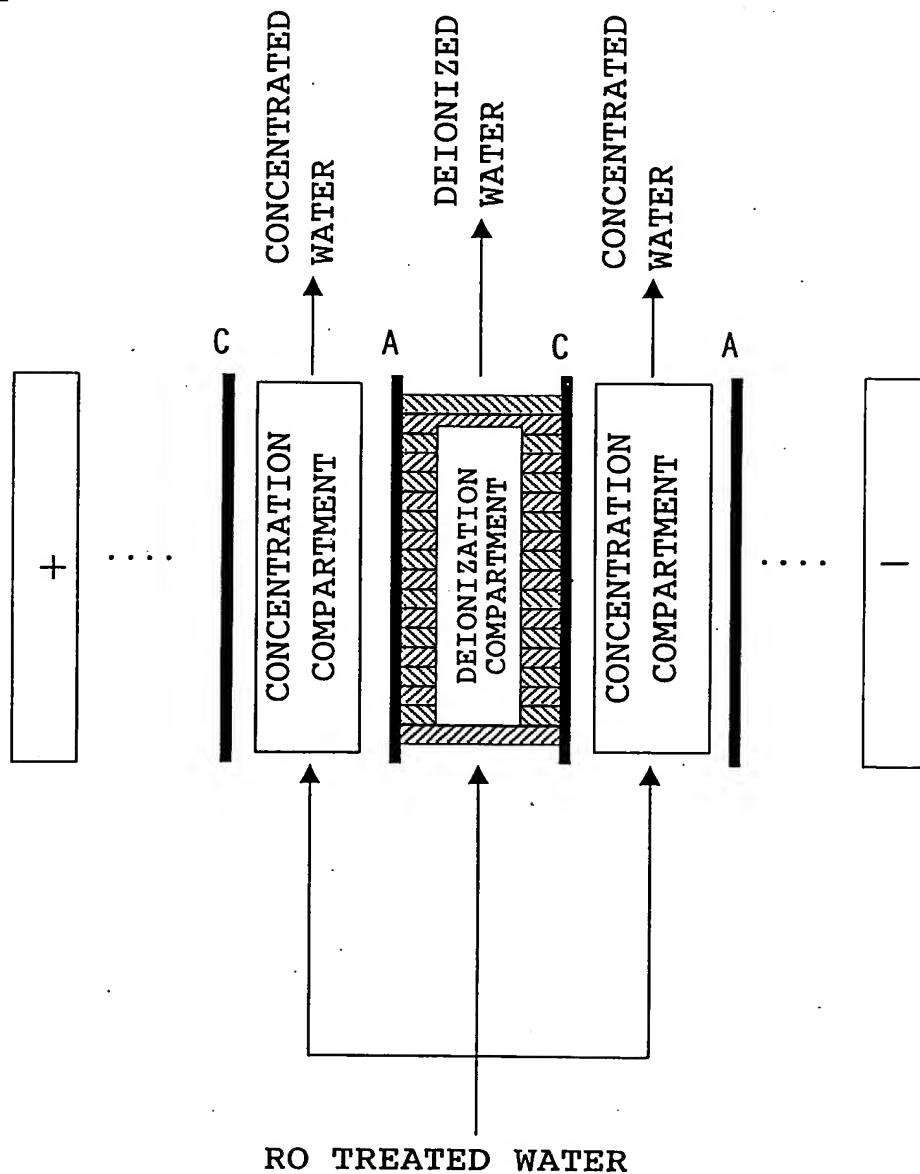
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FIG. 1



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FIG. 2

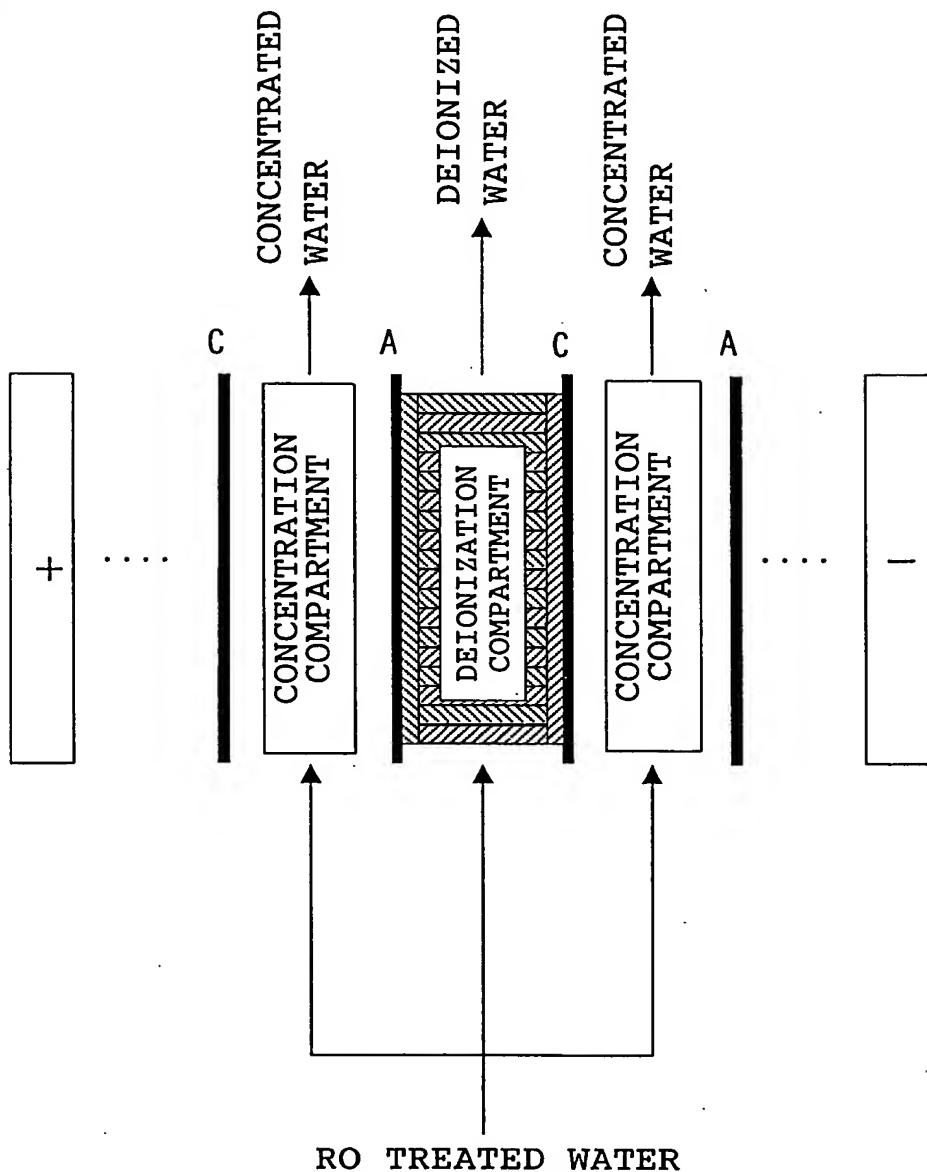


■ FIBROUS MATERIAL LAYER HAVING
ANION EXCHANGE FUNCTION

■ FIBROUS MATERIAL LAYER HAVING
CATION EXCHANGE FUNCTION

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FIG. 3



■ FIBROUS MATERIAL LAYER HAVING
ANION EXCHANGE FUNCTION

■ FIBROUS MATERIAL LAYER HAVING
CATION EXCHANGE FUNCTION

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FIG. 4

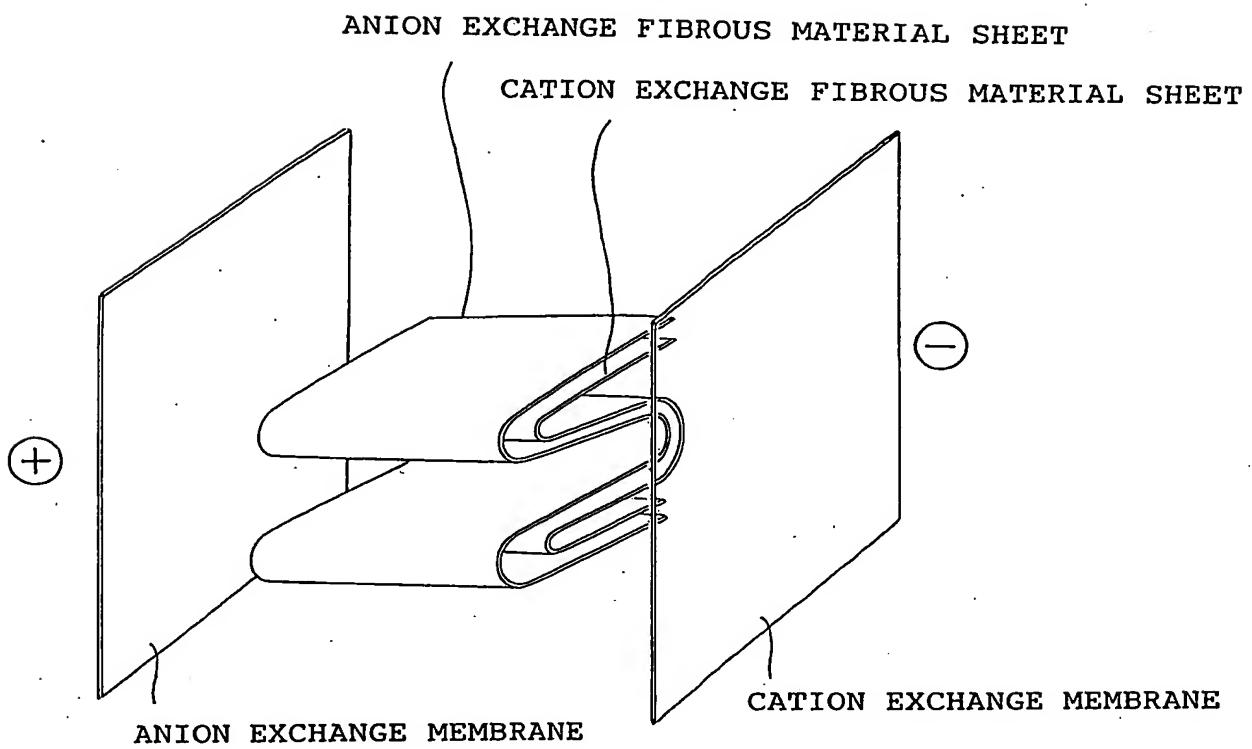
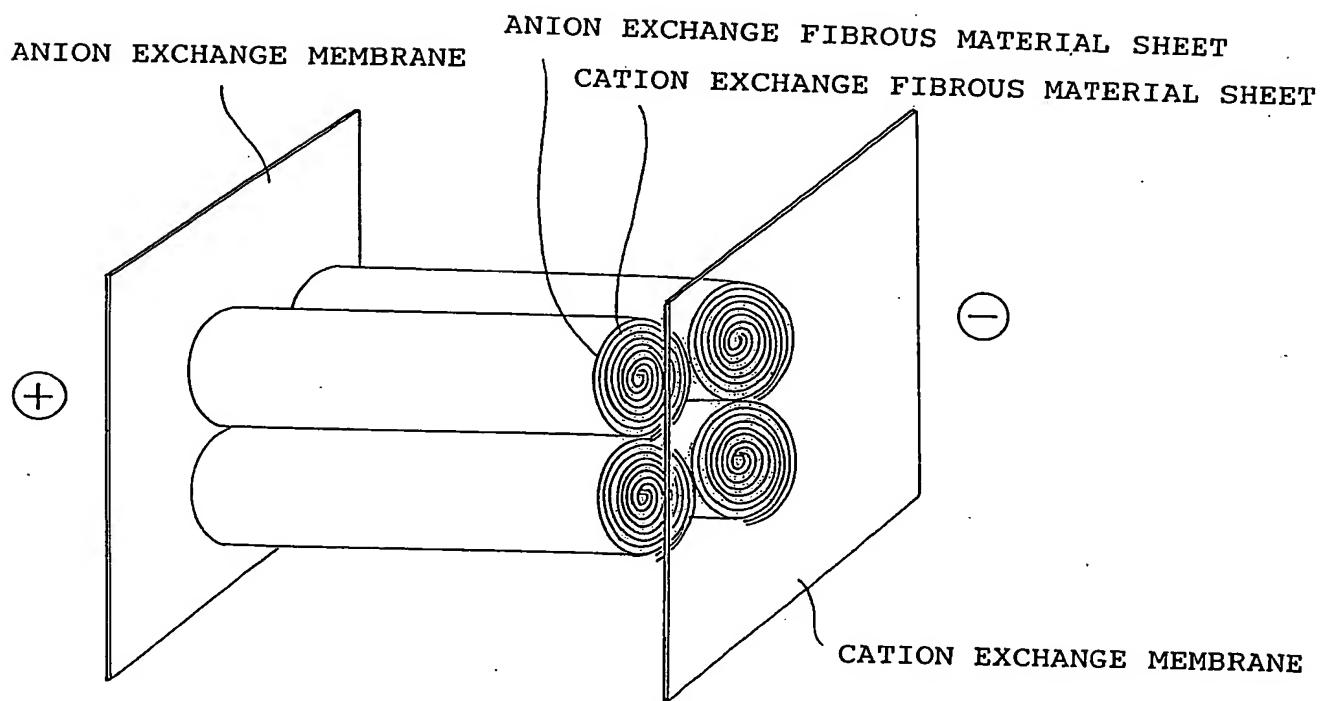
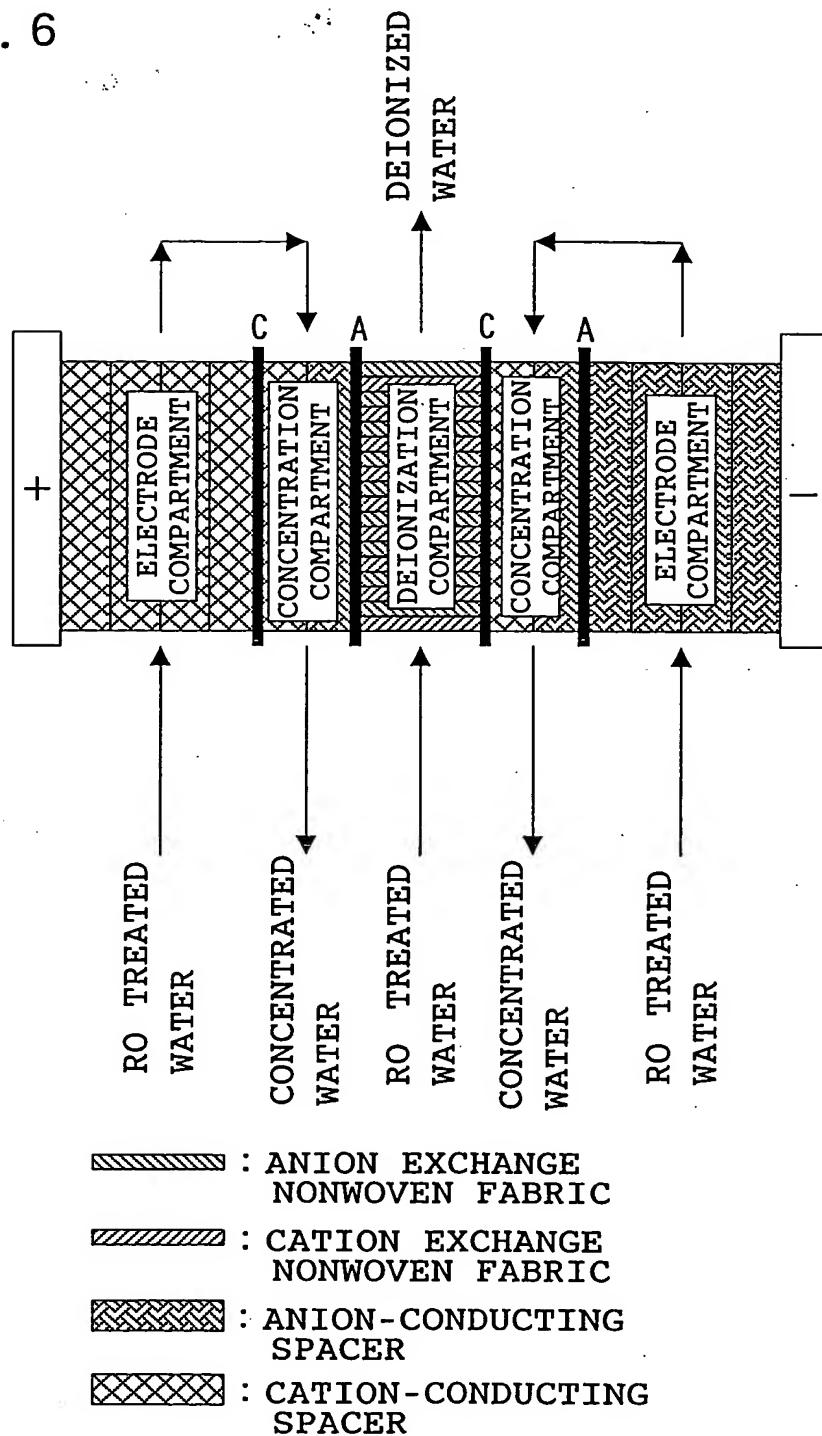


FIG. 5



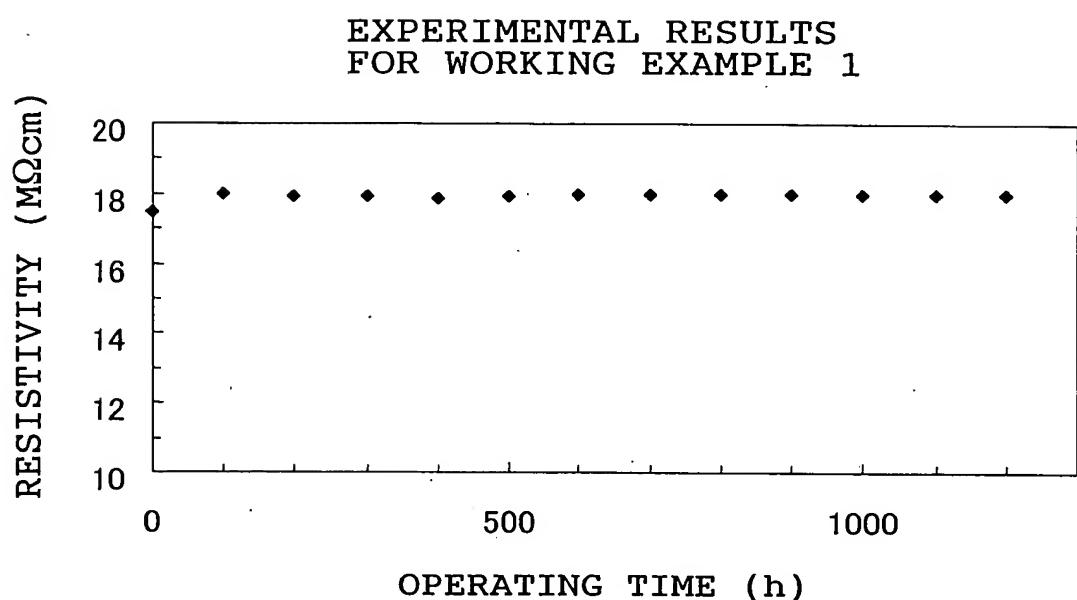
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FIG. 6



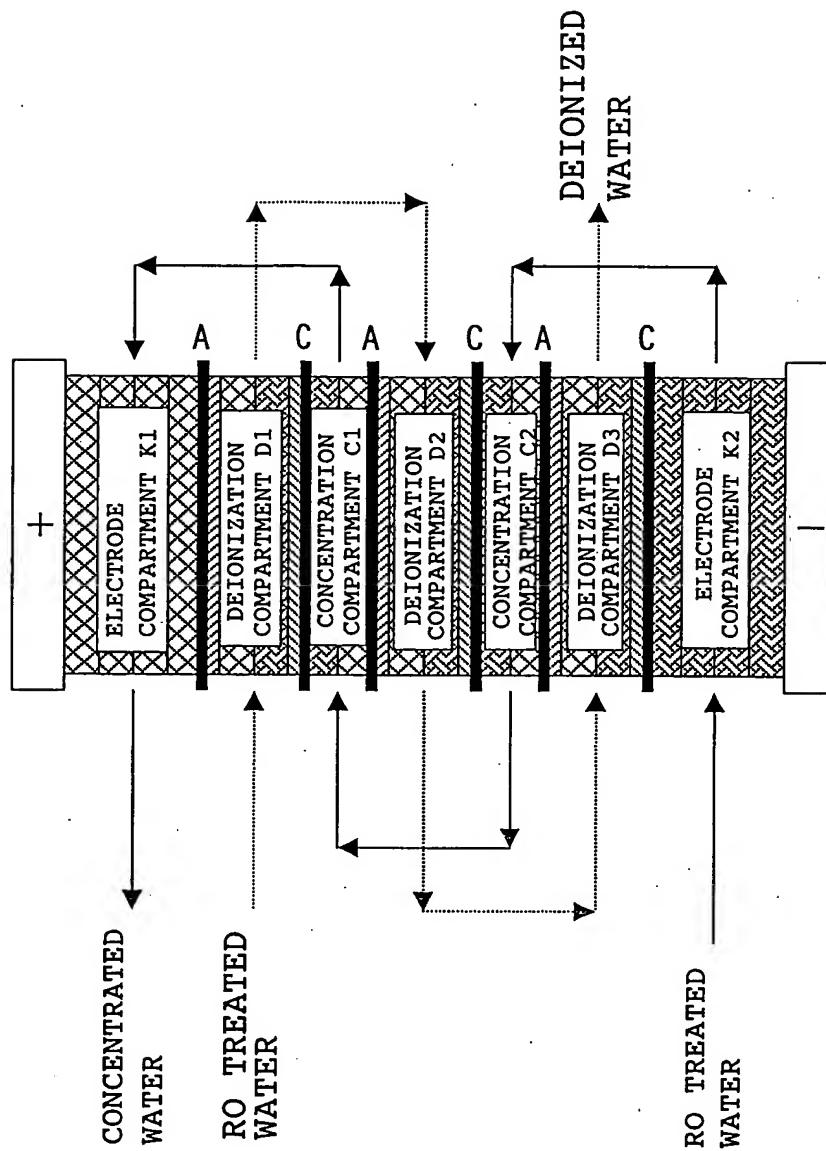
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FIG. 7



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FIG. 8



■ : ANION EXCHANGE
NONWOVEN FABRIC

■ : CATION EXCHANGE
NONWOVEN FABRIC

■ : ANION-CONDUCTING
SPACER

■ : CATION-CONDUCTING
SPACER

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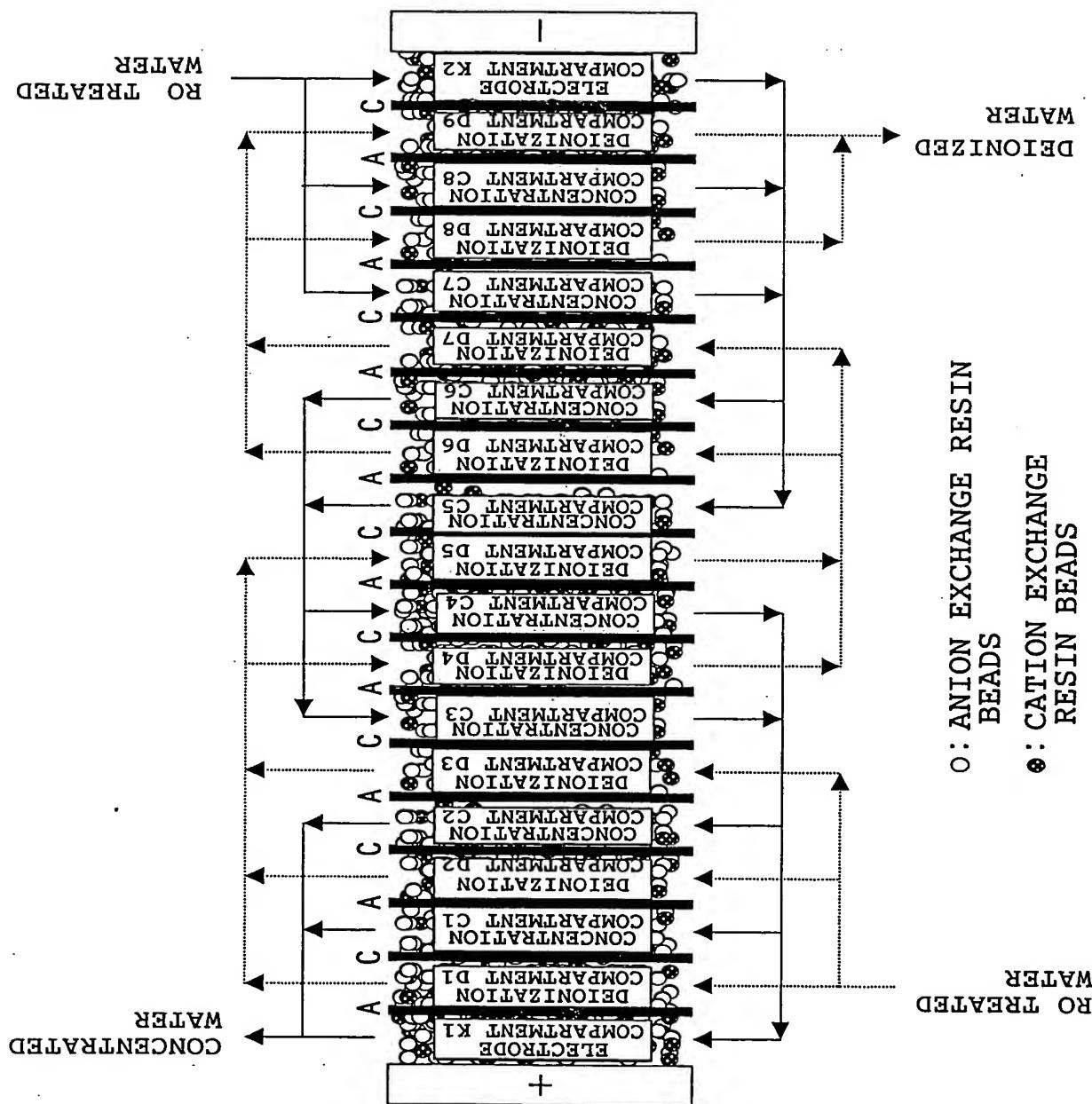
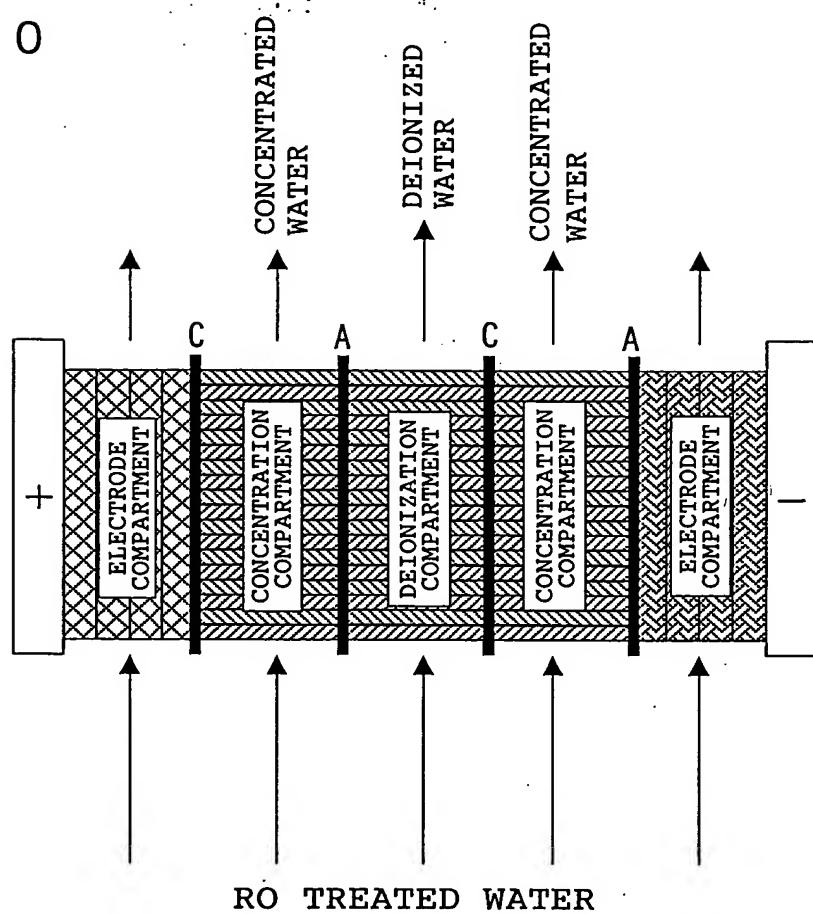


FIG. 9

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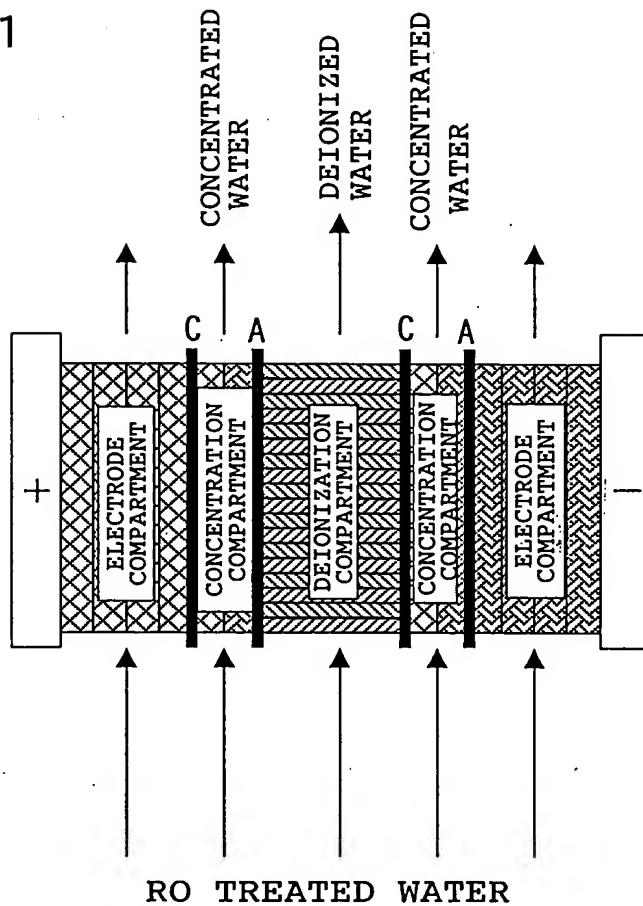
FIG. 10



- : ANION EXCHANGE NONWOVEN FABRIC
- : CATION EXCHANGE NONWOVEN FABRIC
- : ANION-CONDUCTING SPACER
- : CATION-CONDUCTING SPACER

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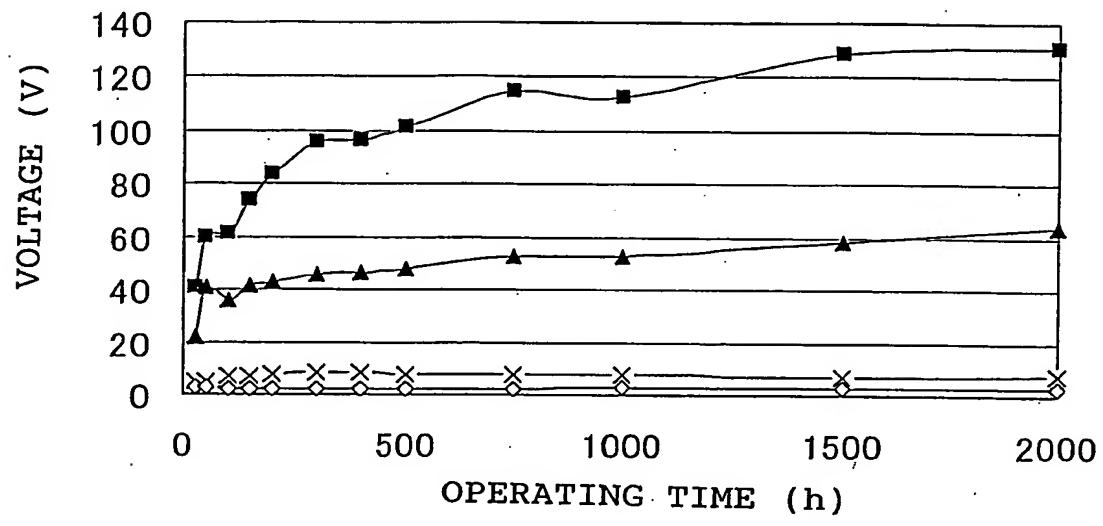
FIG. 11



- : ANION EXCHANGE NONWOVEN FABRIC
- : CATION EXCHANGE NONWOVEN FABRIC
- : ANION-CONDUCTING SPACER
- : CATION-CONDUCTING SPACER

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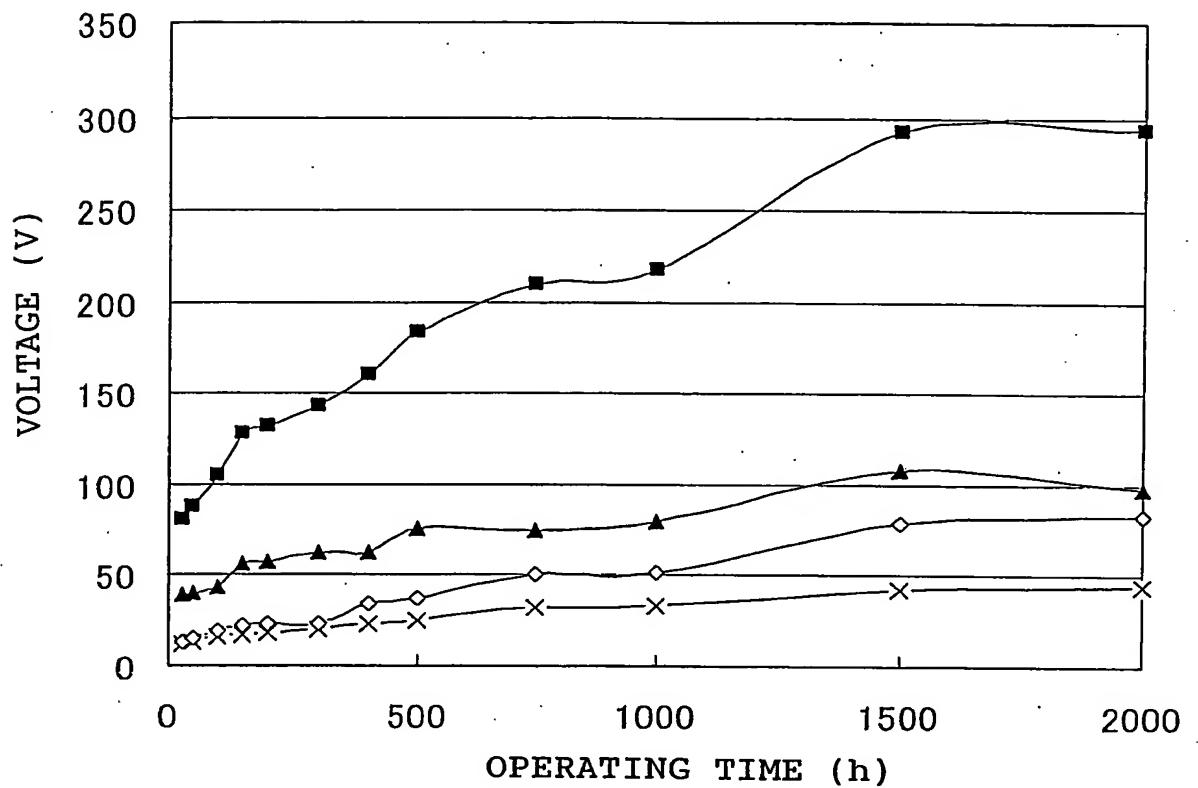
FIG. 12



-X- CONCENTRATION COMPARTMENT
ON CATHODE SIDE
-▲- DEIONIZATION COMPARTMENT
-◇- CONCENTRATION COMPARTMENT
ON ANODE SIDE
-■- OPERATING VOLTAGE

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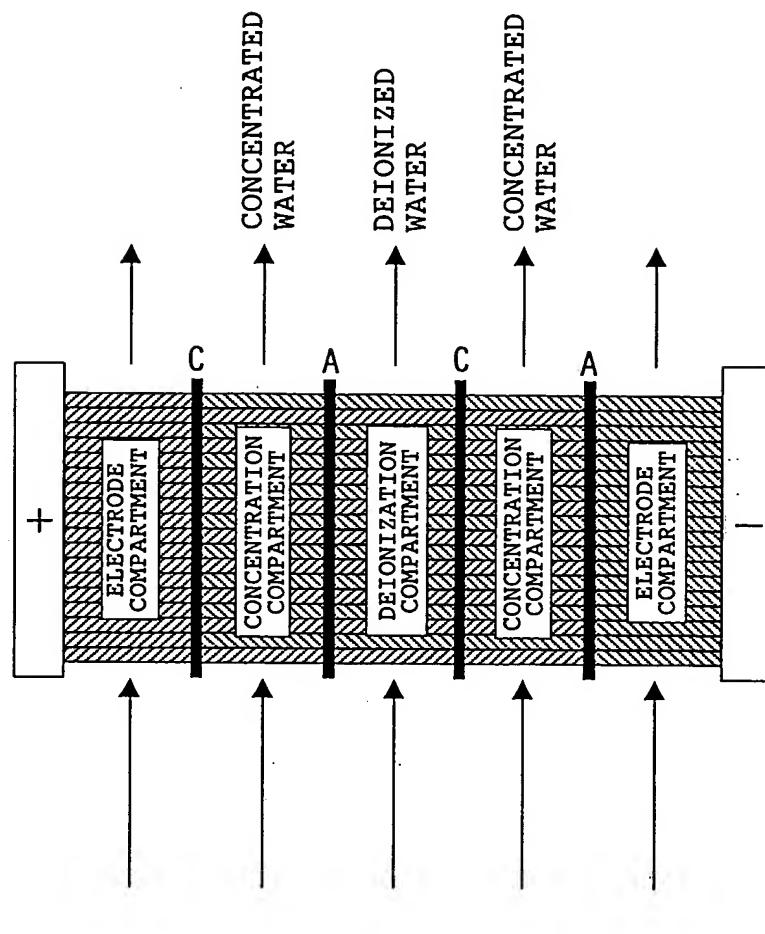
FIG. 1 3



- x- CONCENTRATION COMPARTMENT ON CATHODE SIDE
- ▲- DEIONIZATION COMPARTMENT
- ◊- CONCENTRATION COMPARTMENT ON ANODE SIDE
- OPERATING VOLTAGE

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FIG. 14

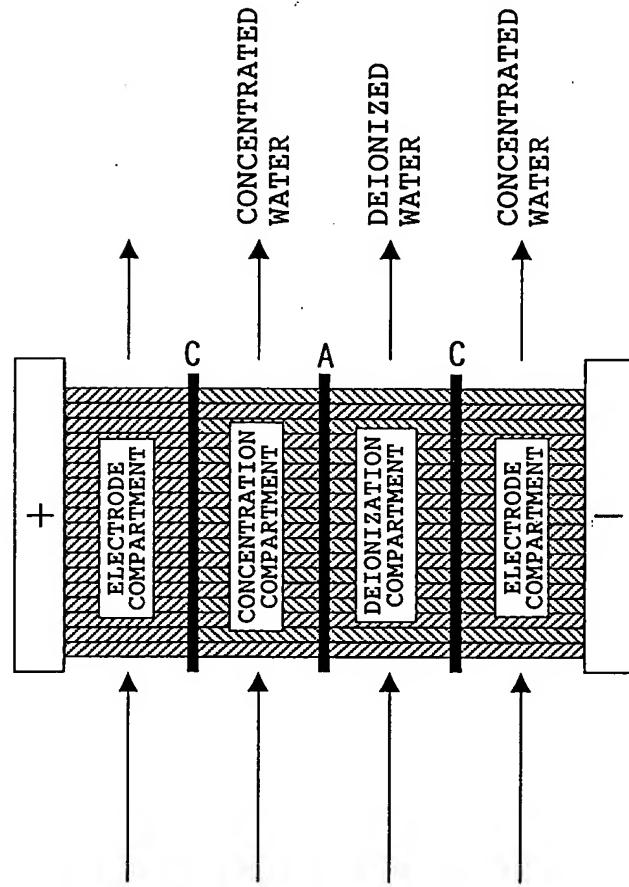


RO TREATED WATER

■ : ANION EXCHANGE
NONWOVEN FABRIC

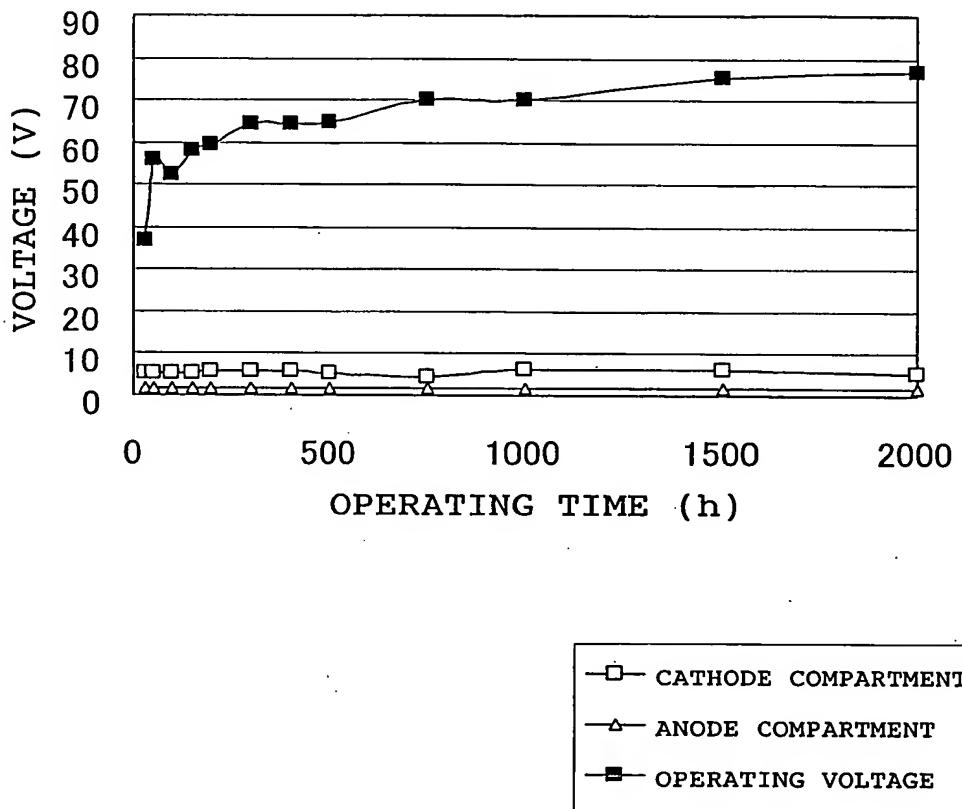
■ : CATION EXCHANGE
NONWOVEN FABRIC

FIG. 15



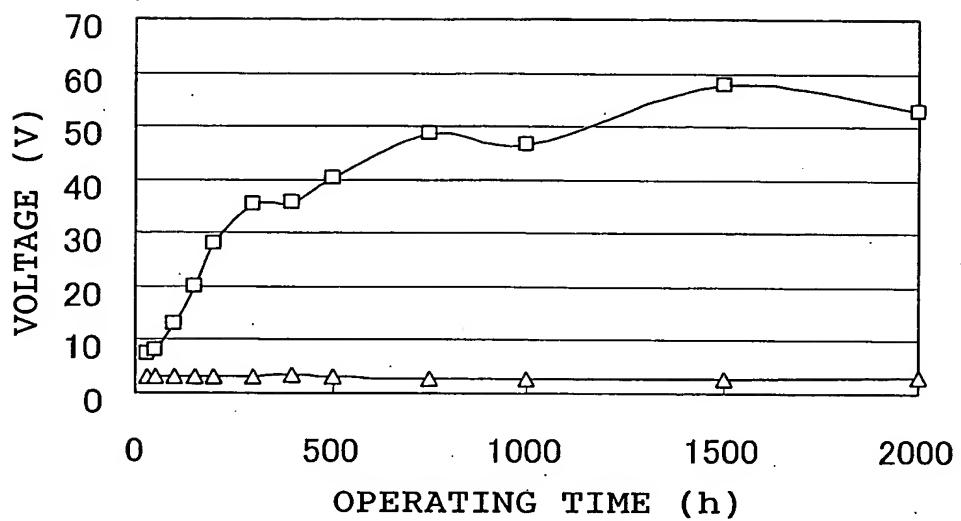
■ : ANION EXCHANGE
NONWOVEN FABRIC
■ : CATION EXCHANGE
NONWOVEN FABRIC

FIG. 16



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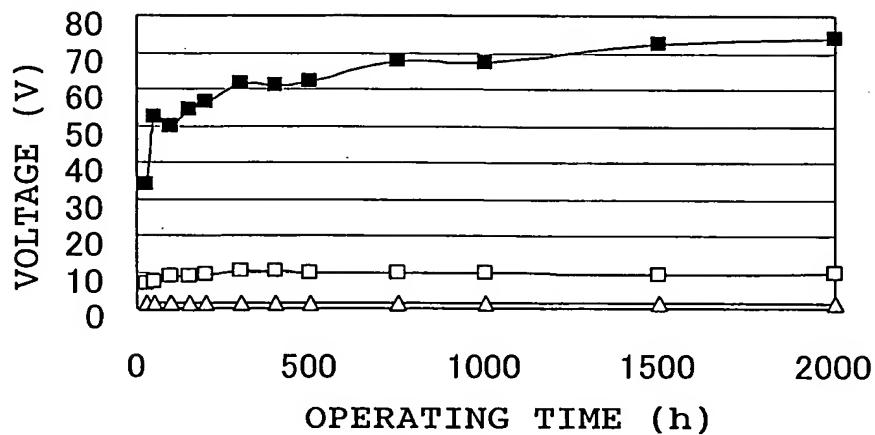
FIG. 17



—□— CATHODE COMPARTMENT
—△— ANODE COMPARTMENT

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FIG. 18



—□— CONCENTRATION
COMPARTMENT-CUM-CATHODE
COMPARTMENT
—△— ANODE COMPARTMENT
■— OPERATING VOLTAGE